

## CLAIM(S)

1. A fuel-cell system for a moving body comprising:  
a reforming reactor for reforming fuel to generate gas including hydrogen,  
5 a carbon monoxide removing reactor for removing carbon monoxide included in a reformed gas generated in said reforming reactor,  
a fuel-cell for generating electric power using the reformed gas and gas including oxygen which passed through  
10 said carbon monoxide removing reactor,  
a compressor for supplying the gas including oxygen to said reforming reactor, said carbon monoxide removing reactor and said fuel-cell,  
a running state detecting section for detecting a  
15 running state of said moving body,  
an accelerator opening detecting section for detecting accelerator opening of said moving body, and  
a control section, wherein  
when said control section judged that said moving body  
20 was running and said accelerator was closed based on information of said running state detecting section and said accelerator opening detecting section, said control section supplies fuel, water and gas including oxygen, or fuel and the gas including oxygen such to said reforming reactor such  
25 that minimum hydrogen required for maintaining a temperature of said reforming reactor is generated, and supplies minimum gas including oxygen required for maintaining a temperature of said carbon monoxide removing reactor to said carbon monoxide removing reactor.
- 30 2. A fuel-cell system for a moving body according to claim 1, further comprising a combustor for reaction processing discharged reformed gas and discharged gas including oxygen discharged from said fuel-cell, wherein  
said control section supplies minimum gas including  
35 oxygen required for maintaining a temperature of said

combustor when it is judged that said moving body was running and said accelerator was closed based on the information of said running state detecting section and said accelerator opening detecting section.

- 5 3. A fuel-cell system for a moving body according to claim 2, wherein

the reforming reaction in said reforming reactor is only an endothermic reaction, and said fuel-cell system further includes a system for recovering heat obtained from  
10 said combustor into said reforming reactor.

4. A fuel-cell system for a moving body according to claim 2, further comprising an evaporator for recovering heat of exhaust gas discharged from said combustor to evaporate said fuel and water.

- 15 5. A fuel-cell system for a moving body according to claim 2, further comprising a temperature detecting section for detecting a temperature of each of said carbon monoxide removing reactor and said combustor, wherein

when said control section judged that said moving body  
20 was running and said accelerator was closed, said control section once stops the supply of fuel, water and air, or fuel and air, or fuel and water, and when said control section judged that a temperature of each of said carbon monoxide removing reactor and said combustor became equal to or lower  
25 than a predetermined temperature based on information of said temperature detecting section, the supply of fuel, water and air, or fuel and air, or fuel and water is started.

6. A fuel-cell system for a moving body according to claim 2, wherein

30 said control section intermittently supplies fuel, water and air, or fuel and air, or fuel and water.

7. A fuel-cell system for a moving body according to claim 2, further comprising a charging state detecting section for detecting a charging state of said secondary battery,

35 when said control judged that said accelerator was

closed and said secondary battery was charged insufficiently, said control section stops the supply of fuel, water and air, or fuel and air, or fuel and water.

8. A fuel-cell system for a moving body according to claim 5, wherein a time period during which the supply of fuel, water and air, or fuel and air, or fuel and water is determined by a constant assuming several driving conditions.

9. A fuel-cell system for a moving body according to claim 5, wherein a time period during which the supply of fuel, water and air, or fuel and air, or fuel and water is calculated based on temperatures of said reforming reactor, said carbon monoxide removing reactor and said combustor when said accelerator is closed.

10. A fuel-cell system for a moving body according to claim 5, wherein a time period during which the supply of fuel, water and air, or fuel and air, or fuel and water is calculated while estimating temperatures of said reforming reactor, said carbon monoxide removing reactor and said combustor when said accelerator is closed based on history of a driving condition immediately before said accelerator is closed.

11. A fuel-cell system for a moving body according to claim 2, wherein

immediately after said accelerator was closed, said control section once stops the supply of fuel, water and air, or fuel and air, or fuel and water, and when said control section judged that a temperature of each of said carbon monoxide removing reactor and said combustor became equal to or lower than a predetermined temperature, the supply of fuel, water and air, or fuel and air, or fuel and water is started.

12. A fuel-cell system for a moving body according to claim 2, wherein a supply flow rate or intermittent time of said fuel, water and air, or fuel and air, or fuel and water are corrected based on a temperature or driving history of each of said reforming reactor, said carbon monoxide removing reactor and said combustor when said accelerator is closed.

13. A control method of a fuel-cell system for a moving body comprising a reforming reactor for reforming fuel to generate gas including hydrogen, a carbon monoxide removing reactor for removing carbon monoxide included in a reformed gas  
5 generated in said reforming reactor, a fuel-cell for generating electric power using the reformed gas and gas including oxygen which passed through said carbon monoxide removing reactor, and a compressor for supplying the gas including oxygen to said reforming reactor, said carbon  
10 monoxide removing reactor and said fuel-cell, wherein  
when it is judged that said moving body was running and said accelerator was closed, fuel, water and gas including oxygen, or fuel and the gas including oxygen such is supplied to said reforming reactor such that minimum hydrogen required  
15 for maintaining a temperature of said reforming reactor is generated, and minimum gas including oxygen required for maintaining a temperature of said carbon monoxide removing reactor is supplied to said carbon monoxide removing reactor.
14. A fuel-cell system for a moving body comprising:  
20 a reforming reactor for reforming fuel to generate gas including hydrogen,  
a carbon monoxide removing reactor for removing carbon monoxide included in a reformed gas generated in said reforming reactor,  
25 a fuel-cell for generating electric power using the reformed gas and gas including oxygen which passed through said carbon monoxide removing reactor,  
a compressor for supplying the gas including oxygen to said reforming reactor, said carbon monoxide removing reactor  
30 and said fuel-cell,  
a running state detecting means for detecting a running state of said moving body,  
an accelerator opening detecting means for detecting accelerator opening of said moving body, and  
35 a control means, wherein

- when said control means judged that said moving body was running and said accelerator was closed based on information of said running state detecting means and said accelerator opening detecting means, said control means
- 5 supplies fuel, water and gas including oxygen, or fuel and the gas including oxygen such to said reforming reactor such that minimum hydrogen required for maintaining a temperature of said reforming reactor is generated, and supplies minimum gas including oxygen required for maintaining a temperature
- 10 of said carbon monoxide removing reactor to said carbon monoxide removing reactor.

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